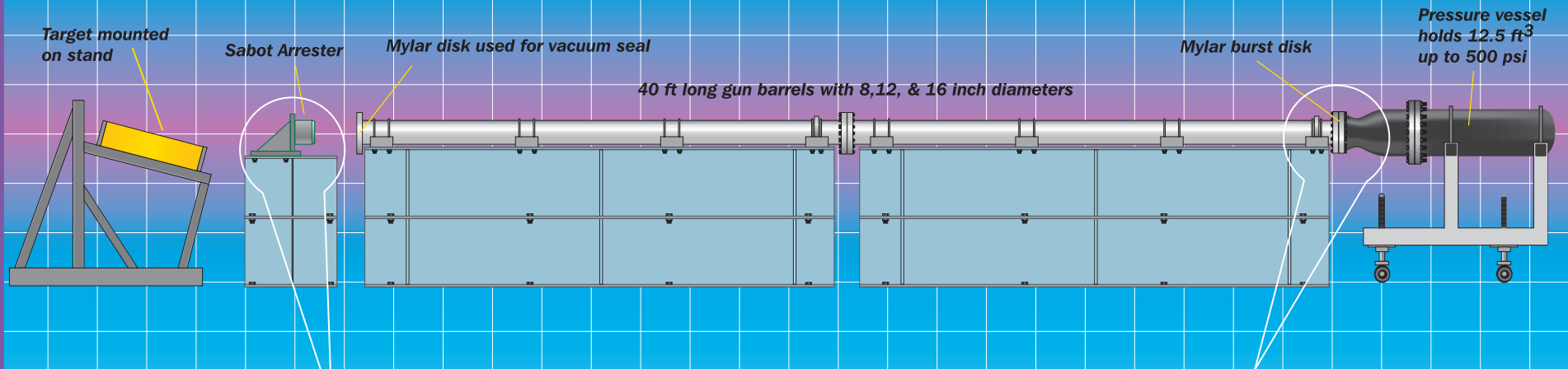


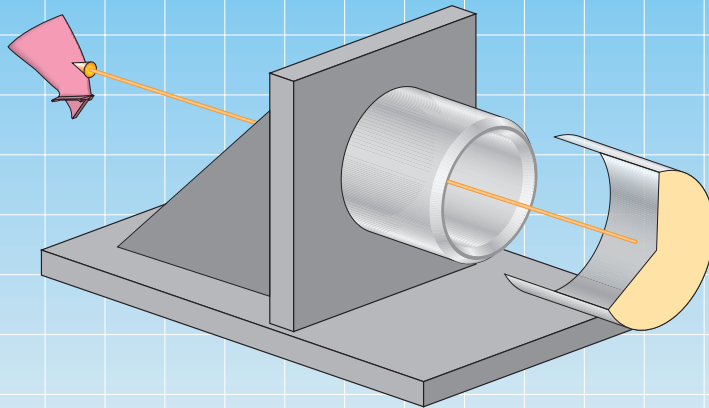
Structures & Acoustics Division

BALLISTIC IMPACT GAS GUN



Sabot Arrester

Larger in diameter than the arrester, the sabot slides over it as it exits the gun barrel. This stops the sabot yet allows the projectile to continue towards the target.



Pressure Vessel

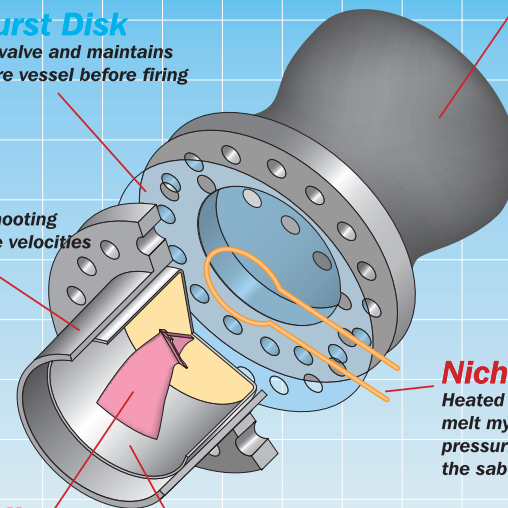
Pressurized with helium or nitrogen gas to fire gun

Mylar Burst Disk

Acts as gun's valve and maintains gas in pressure vessel before firing

Gun Barrel

Evacuated prior to shooting to allow for projectile velocities up to 2000 ft/sec



Nichrome Wire

Heated with electric current to melt mylar disk releasing pressurized gas, and launching the sabot/projectile package

Projectile

Generally a blade or blade simulating article

Sabot

Holds projectile in proper orientation during firing